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The Iowa Ornithologists' Union was organized at Ames, Iowa, February 28, 1923, for the study and protection of native birds and to promote fraternal relations among Iowa bird students.

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ANALYSIS OF A WINTER BIRD - POPULATION STUDY

WOODWARD H. BROWN

4815 Ingersoll Ave.
DES MOINES, IOWA

Studies have been made annually since the winter of 1954-55 of the wintering bird population in a 33-acre portion of Greenwood Park in Des Moines. With the exception of two small groves of White Pine and Austrian Pine, and a group of hawthorn, the trees are almost exclusively virgin White Oak, 15 to 24 inches d.b.h. The western and central portions are grassy beneath the oaks, while the eastern one-third has an understory consisting of Gray Dogwood, Coralberry and High-bush Cranberry. The topography is quite rolling and hilly. The area is bounded on the north by a busy highway and on the north-east by a residential street; the remainder is similar to the area censused.

Dates of the census trips ranged from late November to early March during which time there was no migratory movement in the area. All trips were made between 9 and 10 a.m. and the identical route was followed each time. Thus, the variables were limited to temperature and cloud-over.

There were 18 species recorded in the 12 winters, but the appearances of Juncos, Blue Jays, and Cardinals were very irregular and the others were too few to graph. Table I shows the number of individuals seen and the



View of Greenwood Park, Des Moines.
Photo by author

average number per trip for the six species observed most frequently. The figures are summarized for the first six and second six years, and by cloud-cover for the total 12-year study period. The latter breakdown shows the native species to be almost as numerous on cloudy days as on clear days, but considerably more House Sparrows and Starlings were found when the weather was clear. A further analysis according to temperature and cloud-cover was made, but the numbers of trips in the temperature groups are too small to show any correlation between the temperature and the number of birds seen. It was shown that Starlings were fewer on cold days, apparently because of their habit of roosting on chimneys in cold weather.

Fig. 1 illustrates the decrease in the winter population of the native species which began in the late 1950's, while Fig. 2 shows the increase in the exotic species, House sparrows and Starlings.

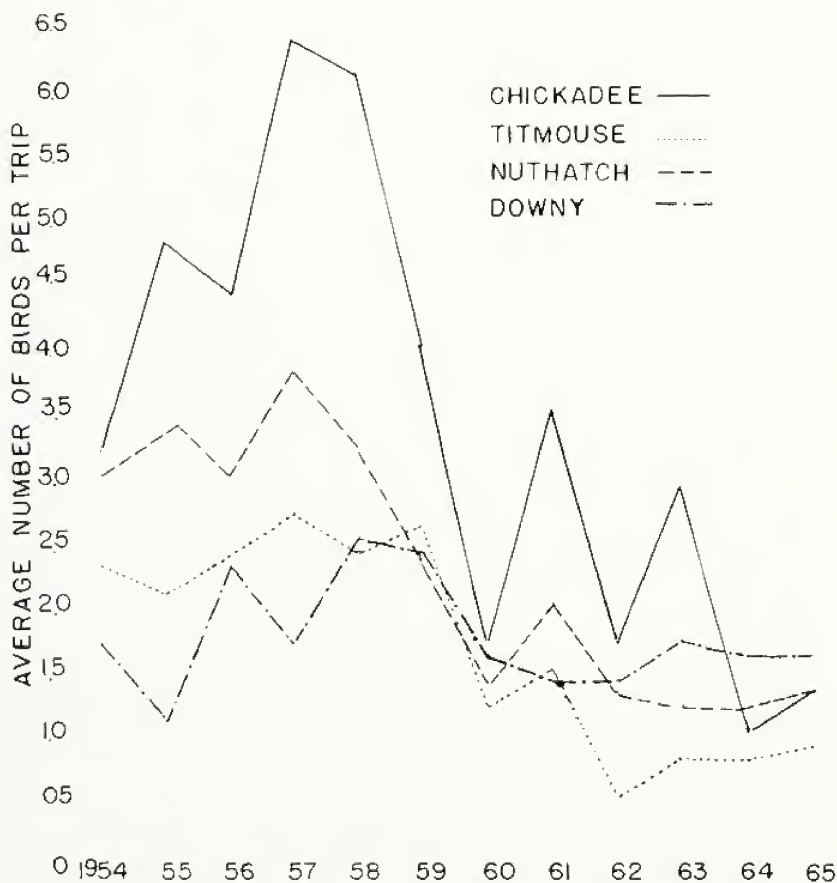


Fig 1. Average number of four species of native birds seen per trip each winter.

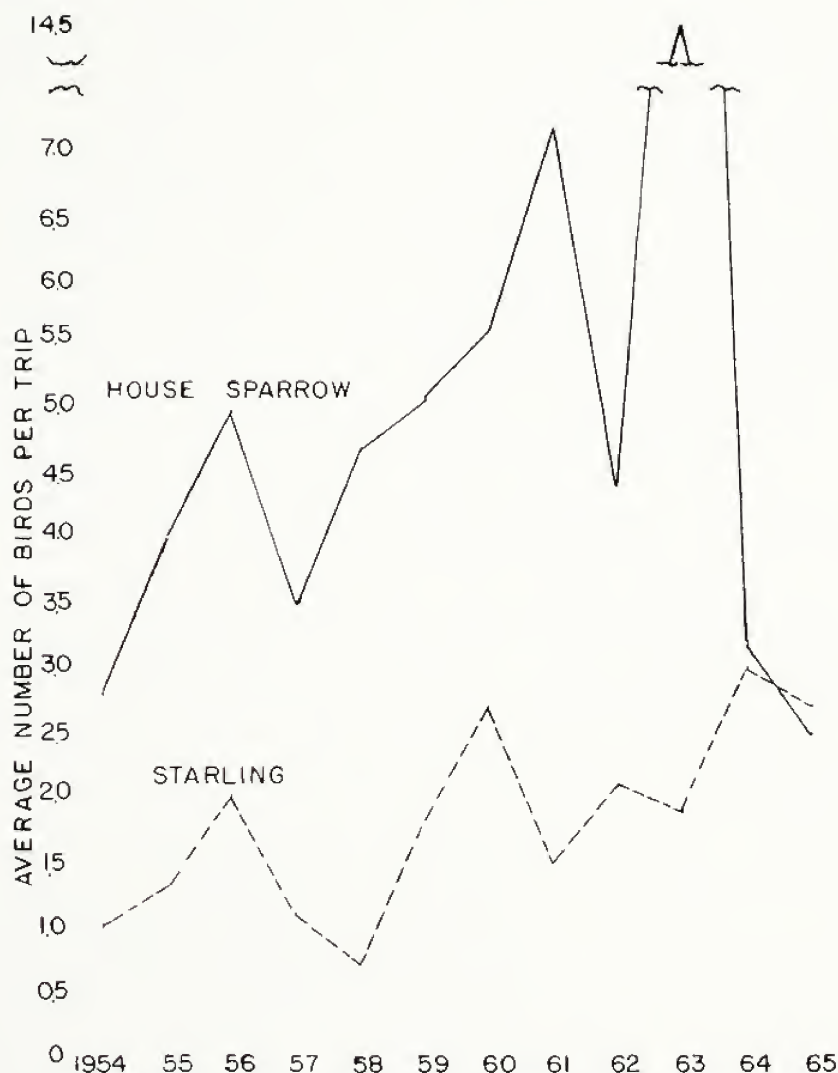


Fig. 2. Average number of House Sparrows and Starlings seen per trip each winter.

The only physical change in the area was in 1963 when a quantity of brush was dumped in a ravine along the west boundary of the area. This attracted a flock of House Sparrows in the winter of 1963-64 and the average per trip jumped from 1.4 in the previous winter to 14.5. Although the conditions remained the same the average the following winter dropped to 3.2.

There is no apparent reason for the decline in the native species. There are few American Elms in the area, and Mr. Turner, Supt. of the Des Moines Park Dept., indicated there was no spraying to protect these from the Dutch Elm Disease. The area includes an outdoor theater which is sprayed during the summer for mosquito control, but this practice antedates the population study by many years and should not be a factor.

I am very grateful to Dr. Milton W. Weller for many helpful suggestions regarding the presentation of these data.

TABLE I
Number of Birds and Averages per Trip.

No. Trips	1954-59		1960-65		1954-65		1954-65		1954-65	
	108		249		357		Clear Days		Cloudy Days	
							216		141	
	No. Birds	Average Per Trip	No. Birds	Average Per Trip	No. Birds	Average Per Trip	No. Birds	Average Per Trip	No. Birds	Average Per Trip
Chickadee	540	5.0	534	2.1	1074	3.0	647	3.0	427	3.0
Titmouse	264	2.4	219	.9	483	1.4	310	1.5	173	1.2
Nuthatch	340	3.2	342	1.4	682	1.9	430	2.0	252	1.8
Downy	212	2.0	385	1.5	597	1.7	390	1.8	207	1.5
Total	1356	12.6	1480	5.9	2836	8.0	1777	8.2	1059	7.5
House Sparrow	455	4.2	1768	7.1	2223	6.2	1553	7.2	670	4.8
Starling	146	1.4	544	2.2	690	1.9	530	2.5	160	1.1
Total	1957	18.1	3792	15.2	5749	16.1	3860	17.9	1889	13.4
18 Species*										
Observed	2875	26.6	5807	23.3	8682	24.3				
*Includes	1200 Juncos, 544 Blue Jays, 363 Cardinals among others.									

OBSERVATIONS ON A MARSH IN MAY

BARTON SUTTER

Box 17
HANLONTOWN, IOWA

It was 12:30 and the sun was unmercifully hot when I finally topped the last rise to look down on Elk Creek Marsh. I had just finished the most exhausting bicycle trip of my life—over two hours to travel just 12 miles, gravel roads and a strong headwind all the way. The first six miles had been

easy enough; I just spent the whole time singing Gershwin's "It Takes a Long Hard Pull to Get There." The last six had been something else again; I spent the whole time muttering things about the irresponsibility of men like Charley Spiker who inspire young men to pull foolish stunts like this one. Within seconds after reaching the crest of the hill, however, I realized why Spiker did all that biking for birds, for as I came blasting down the hill into the valley which holds Elk Creek Marsh, I was brought quickly to a halt by a bundle of beauty well worth my two hours of sweating work—an American Avocet.

The Avocet was merely the beginning. Since I was traveling by bicycle, my equipment was necessarily light; I had no tent, just a sleeping bag, and my notebooks weighed more than my food supplies. I was able to stay on the marsh only for 24 hours, but in that time I realized more clearly than ever before why I will be studying natural history for the rest of my life. What began as a few hours to be spent observing shorebirds became one of the highpoints of my attempt to understand life.

Many of the 24 hours from 12:30 p.m. on May 27 to the same time the following day were spent sitting—cold, wet, and shivering—on the mud bars and sand spits of the marsh watching a variety of birds. I found that crouching for hours in one place, even without the benefit of a blind, was extremely rewarding in that shortly the birds seemed unaware of my presence and fed within a few feet of me. I have long been interested in bird behavior, but my previous observations had been made primarily incidental to the pursuit of the species list, which activity Roger Peterson says has been called by some professional ornithologists "ornithogolfing." Spending hours in observing bird habits was for me a relatively new and very fascinating facet of bird study. Below are recorded some of the behavior observations of various species which I made on this marsh in May.



BLUE-WINGED TEAL

Photo by F. W. Kent

BLUE-WINGED TEAL

Sowls (1955) gives several instances in which hens set for days on nests containing addled eggs. He also wrote in reference to nest desertion, "It occurs most frequently with the Mallard and least frequently with the Blue-winged Teal."

Shortly after arriving on the Elk Creek area, I flushed a female Blue-winged Teal from the grass of the uplands. She flew in that weak, fluttering manner suggestive of a nesting hen. A thorough search revealed the nest which was still warm from the hen's body. The surprising factor was that every one of the eight eggs in the nest had been destroyed by a predator. Here was a hen so attached to her nest that she refused to desert even after the destruction of every single egg! Returning several days later, I found that eventually she did desert the nest.

SEMPALMATED SANDPIPER

The concept of territory, generally defined as any defended area, has been well studied in nesting waterfowl as well as other species. During the course of shorebird observations in the past few years, I began to wonder if even these migrants had temporary feeding territories. While on the mudflats of Elk Creek Marsh, I had opportunity to observe hundreds of feeding Semipalmated Sandpipers at extremely close range and thus was able to watch for indications of defense of feeding territory in this species.

On the morning of the 28th while watching the Avocet feeding in a large pool, I was distracted by a flock of eight Semipalmated Sandpipers which landed near a puddle not 15 feet from where I sat. In fascination I watched as with flutterings and cries four of the group were immediately driven off, then two more, until only two of the original group of eight birds remained on the area near the puddle. These two individuals crouched, facing each other, calling and fluttering their wings. One of the birds quickly backed down and moved a few feet away but was frightened entirely from the area by the other which flew at it and then remained to feed on this rather large area (at least 400 square feet). This dominant individual was observed to successfully defend this area from several other intruders.

Finally a second bird gained rights to the territory. Its success came from its refusal to retreat when the first bird threatened. Both birds entered the crouch position, followed by hovering and fluttering. They then fed peacefully on the area maintaining a distance of at least five feet. Several times the first bird attempted to frighten the intruder from the territory but was always unsuccessful. All further invaders were driven from the area by one or the other of the birds.

Feeding territory such as this, however, seems at most to be a requirement only of certain individuals, for not 100 feet down the flat 20 Semipalmated Sandpipers were feeding so close together that they often bumped one another.

AMERICAN AVOCET

Dr. Thomas S. Roberts in *The Birds of Minnesota* (1932) wrote "... the Avocet has long been extinct in Minnesota and comparatively little is on record in regard to its former presence in the state. No stragglers have been reported in recent years." Since the writing of that monumental work, the Avocet has been making a comeback and is now nesting in limited numbers

in Lac Qui Parle County, Minnesota, and more commonly in northeastern South Dakota. In Iowa the Avocet is seldomly reported, and Dr. Martin Grant's "Checklist of Iowa Birds" classed it as a rare irregular migrant.

According to the reports of Minnesota observers, the Avocets reach Minnesota nesting grounds by late April and migrants are at the northern boundary of Minnesota by mid-May. Therefore, it would appear that the individual I observed at Elk Creek Marsh as late as May 28, was an extremely late straggler.

This splash of wild color was so exciting that I spent several hours watching it closely. The Avocet is probably most exciting when feeding. I observed it using two methods. One was an "arc method" which has been compared to that of the Roseate Spoonbill. With mandibles parted, the Avocet drops its bill, head, and neck under the water's surface. Then racing through the water, it swings its head back and forth in an arc of 40 to 60 degrees searching for its aquatic food which, according to Pearson (1936), consists of diving beetles, snails, and marine worms.

The second feeding method which I watched the Avocet employ was a more conventional "dab method" used by most shorebirds. The Avocet used this method in shallow water to capture minnows. Rather than spearing its prey, the Avocet grasped its victims between its mandibles.

Upon capturing a minnow the Avocet quickly swallowed it and then pumped its neck several times, an action which also frequently occurred at other times. On one occasion, however, the Avocet had a more difficult time than usual. Using the dab method, the bird captured a minnow of rather exceptional size (to 4 inches) in comparison to its normal victims (1 to 2 inches). Swallowing proved impossible so the Avocet proceeded to soften the fish to manageability. Grasping the minnow, between its mandibles near its mouth, the bird opening and closing its mandibles on the minnow, let the fish slide down its bill to the mud. This action was repeated many times, interspersed with several spearings of the minnow so that for a while the fish hung on the bird's bill "shish-kebab style." After ten minutes of perseverance the bird was finally able to swallow its prey. The swallowing was followed by 30 seconds of neck-pumping; it may have been work getting that one down!

The Avocet generally fed from one to two hours after which it rested for a short period of 15 to 20 minutes. In resting the bird either lay on a mud bar in the manner of loafing ducks or it stood quietly in very shallow water. During one of these resting periods it lifted one leg, shook the water from it, raised it to its breast, and stood like that on one leg for nearly 15 minutes! While on one leg it preened itself thoroughly and engaged in much neck-pumping, all without any apparent difficulty in maintaining its balance.

The Avocet is a fascinating bird. It appears to be on the rise in Minnesota and should therefore be looked for with intensity by Iowa observers, especially in the western portion of the state.

RED-HEADED WOODPECKER

In the northwestern reaches of the marsh, fingers of land stretch out into the water. Here is located a grove of dead trees which measures about 80 by 20 yards.

Passing this grove on the morning of the 28th, I was attracted by a pair of noisy, cavorting Red-headed Woodpeckers. Intending to watch the Red-heads for a few minutes, I sat down on the nearest hummock; in the end I spent over two hours with the birds.

At first the activities of the birds were extremely confusing, but the longer I watched, the easier the interpretation of their actions became. Apparently a pair of the woodpeckers had established the grove as their territory and now were involved in a courtship flight. For ten minutes the male (presumably) chased the female in a graceful flight among the trees, both birds uttering cries frequently.

Before long, however, their flight was interrupted by an invader which attempted to stake its own claim on the grove. For the next hour and a half I watched the pair try to drive the intruding Red-head from their territory. Most of the driving was done by the male. The intruder would fly to a tree, and the male resident would follow right behind it to land on the same tree, frightening the intruder from its perch. The invader would then fly to another tree, and the whole procedure would be repeated. Although the birds were often very close, I did not once see an actual body attack by either of the birds.

The role of the female was very interesting. The majority of the time she was inactive in the chasing, content to remain in the central area of the grove, rallying to the attack only when the intruder trespassed on this most hotly defended area. Her most interesting role occurred when her mate paused to rest, exhausted from the chase. At these times she would fly to him crying. This usually stimulated the male to immediately resume the defense of the territory. Occasionally, however, the pair would then fly to their favorite perch to engage in a mutual drumming on the dead tree. After a few minutes of this the male would once again rise to the challenging calls of the invader.

Apparently the drumming action had two important purposes. As previously mentioned, it seemed to be a means for strengthening the pair bond. It also was used by the male as a challenge to the intruder, for as soon as the invader answered, the resident male would quickly move on the trespasser.

I finally left the area and on my return 20 minutes later the female had actively joined the chase. Three hours later I once more checked the area to find that the pair had succeeded in driving the invader from their territory. The male was flying from perch to perch, drumming his proclamation of ownership to all it might concern.

As interesting as observations such as these may be, I feel that nature study is most exciting when the naturalist is blessed by one of those revelations when he sees himself in life's beautiful arrangement. This is how I felt on my night on the marsh. I wrote in my journal: Last night as I walked into camp, two Nighthawks flew overhead and into the sinking sun. They must have touched something off in me, for as I built up the supper fire I grew incredibly happy—not a powerful, exploding fireworks happy but rather a peaceful, humming happy. I felt so content, satisfied, at peace. As the darkness set in and supper simmered in the laughter of the flames, I realized that there is nothing on this earth I would rather do than what I had done all day. When I had finished supper, I took out my bible and turned to the 23rd

Psalm. With the flickering firelight jumping across the pages, I read those lines which must be true to every naturalist's heart; they had a new meaning for me.

The Lord is my shepherd, I shall not want;
He makes me lie down in green pastures.
He leads me beside still waters; he restores my soul.

I shoved the butts of the glowing logs into the embers, and as they flamed into the darkness, I thought. I thought of my future, of all the green pastures and still waters to which God will lead me. And I thanked God.

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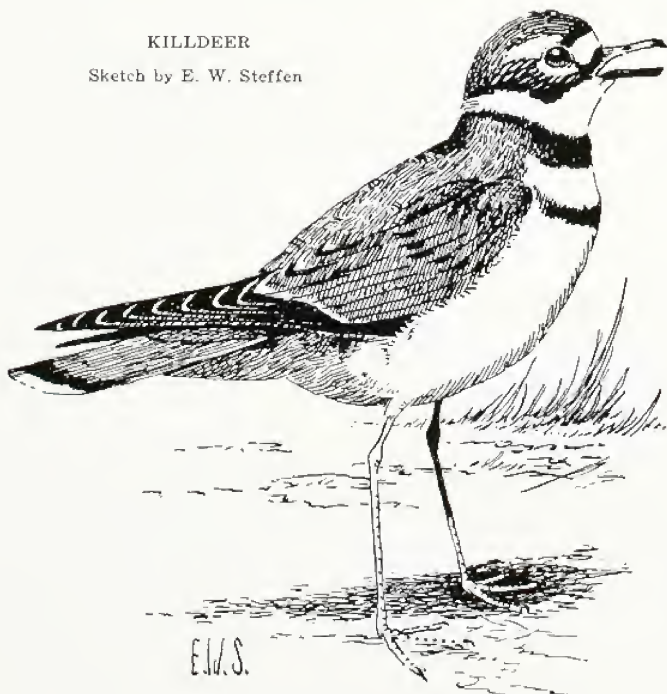
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KILLDEER

Sketch by E. W. Steffen



SHEEDER PRAIRIE — A GEM IN A FRIENDLY SETTING

RICHARD KNIGHT

116 Stanton
AMES, IOWA

Any birder who has traveled north on U.S. 69 to Goose Lake has no doubt passed through Jewell, a town close to the marsh. A sign "Jewell — A Gem in a Friendly Setting" heralds the visitor's approach to this quiet town. After spending the weekend of July 29, 30, 1966, at Sheeder Prairie we felt it too needed such a sign to tell the passing naturalist of its splendors.

Sheeder Prairie is the newest and smallest (25 acres) acquisition of the Conservation Commission which now owns a total of four prairie preserves. The other three, Caylor, Hayden, and Kalsow, have had their bird life previously described. It was the intent of John Faaborg, Jim Rod, and the author on this trip to catalogue the late summer bird life of Sheeder Prairie.

The topography of the prairie is one of gently rolling hills with the general shape (see picture) similar to a three-sided amphitheater. The water



SHEEDER PRAIRIE — LOOKING NORTH
Photo by Jim Rod

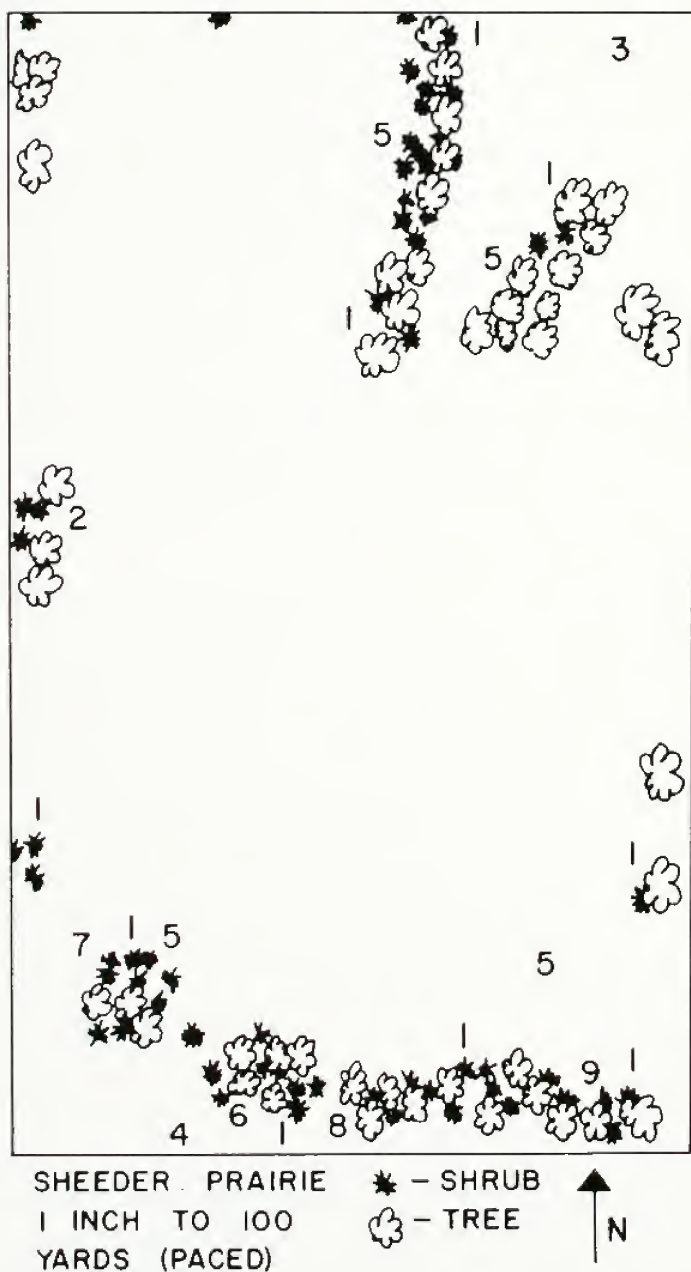
Breeding Birds

No. of Singing Males

Yellowthroat	9
Catbird	4
Mourning Dove	1
Yellow-billed Cuckoo	1
Eastern Kingbird	1
Traill's Flycatcher	1
Western Meadowlark	1
Goldfinch	1
Vesper Sparrow	1

Visitors: Turkey Vulture, Ring-necked Pheasant, Chimney Swift, Screech Owl, Yellow-shafted Flicker, Hairy Woodpecker, Horned Lark, Barn Swallow, Purple Martin, Robin, Bluebird, Loggerhead Shrike, Starling, House Sparrow, Bobolink, Baltimore Oriole, Dickcissel

Late Summer Breeding Birds of Sheeder Prairie and Visitors Seen During July 29, 30, 1966



Map shows approximate locations of singing males found during trip. 1—Yellow-throat, 2—Mourning Dove, 3—Vesper Sparrow, 4—Western Meadowlark, 5—Catbird, 6—Kingbird, 7—Goldfinch, 8—Traill's Flycatcher, 9—Yellow-billed Cuckoo.

drainage is roughly from east to west and there are three fingers of trees (see map) following dry creek beds down the hills. These bands of trees are composed mostly of Box Elders and Willows. No water was found on the area but a small pond is situated near the northwest corner. The grasses varied in height from knee to waist length and there was a thick profusion of blooming wildflowers. Most of the flowers appeared to be composites. The only evidence of mammals on the area was one fresh woodchuck den and a small amount of burrowing by pocket gophers. Many interesting species of insects, especially butterflies, were identified.

The breeding birds were obtained (see chart and map) by recording on a map the position of singing males during evening and morning censuses. In addition, general observations and active nests which were found were used to complete the data. A list of the avian visitors (see chart) was kept as well.

The time in the field was pleasantly spent with several interesting interruptions. A pair of Turkey Vultures were seen soaring over the prairie and lended an air of authenticity to the general over-all picture. We saw a young Screech Owl fly from cover and then watched it attacked and driven to the ground by a screeching Kingbird. In one tree where we thought there was one young Loggerhead Shrike we were astounded to find four.

The blue-bird sky, drifting white clouds, and nodding flowers in the cool breeze all did their best to transport us back in time to the days that Iowans will no longer see — the days of the wind-swept oceans of prairies stretching to the horizons. We are fortunate however to at least have these relics preserved not only for the present but for the future generations of would-be buckskin men and women.

FALL GET-TOGETHER, SEPTEMBER 10 AND 11, 1966

DR. MYRLE M. BURK, SECRETARY-TREASURER

R.R. #2
WATERLOO, IOWA

As guests of the Red Cedar Chapter, Izaak Walton League, Vinton, Iowa, the members of the Iowa Ornithologists' Union, enjoyed one of the most successful fall meetings. Friday evening during the informal gathering and visiting, which occurred in their club house, coffee, doughnuts and rolls were served. After the film and slide program, the most delicious watermelon was served in unlimited quantities.

Eight members voluntarily presented a film and slide program which merited appreciation and praise. This type of program, which is thoroughly enjoyed by the audience, also serves as an incentive for better technique and interests newcomers in this phase of bird study. Following is a short resume of the pictures.

Roy Schultz, Castalia, showed films of the activities of the Decorah Audubon Club, a newly organized and very active group from several north-eastern counties of Iowa. Striking were his films of the Timber Rattlesnakes,

sunning themselves on a limestone ledge, and of the Yellow-headed Black-bird, the Scarlet Tanager and the Red-tailed Hawk.

A sign near Rockport, Texas, shown by Homer Rinehart, Marshalltown, produced chuckles. It read: "Posted vs. Hunting and Fishing, Welcome to Bird Watchers." His most excellent slide was of newly-hatched chicks of the shy Upland Plover. Also included were slides of the Burrowing Owl, the Yellow-breasted Chat and the Le Conte's Sparrow.

One of our newer members, James P. Rod, Cambridge, now a student at I.S.U., showed slides of the Swainson's Hawk, the Whistling Swan, and Blue and Snow Geese.

Keith Layton, Oskaloosa, had beautiful views of Dinosaur National Park, the Tetons, and Glacier National Park. Grouse, Moose, and the Marmots were entertaining models for a number of slides.

Jack McLane, Burlington, showed his excellent slides, the most striking of which was of the Sharp-shinned Hawk taken at the Bellevue meeting.

Judge Charles C. Ayres, Jr., showed an admirable picture of the Avocet. He also had beautiful views of Glacier National Park.

Peter C. Petersen, Jr., gave a resume of the Bird Breeding Survey being made by the Fish and Wildlife Service. The Eastern part of the United States was covered in 1966. During 1967, it is planned to carry the survey through the two tiers of states west of the Mississippi River. Slides by Chandler Robbins illustrated his talk. Members interested in aiding should contact the editor.

Harry Rector, Vinton, and our host, introduced the President of the Red Cedar Chapter and Judge John W. Tobin who has been National President of the Izaak Walton League. He also called our attention to the large fireplace of which the chapter is very proud. It was built by Judge Tobin, and other members of the chapter, using stone collected along the Cedar River.

Adjournment.

Members breakfasted Sunday morning at the Country Club. They then met at the Izaak Walton Club House for the bird hikes. They divided in three groups; two followed the trail through the 1000 acres of woodland, streams and ponds, which is owned and maintained by this active group of conservationists, the Red Cedar Chapter of the Izaak Walton League; the third group drove to a swamp area. The morning was sunny and warm, excellent for hiking and birding. Eighty-seven species were seen.

At noon, the group went to the Country Club House, where luncheon was served. Judge Charles C. Ayres, Jr., acted as compiler of the birds seen Sunday morning.

Great Blue Heron, Green Heron, Black-crowned Night Heron, Blue-winged Teal, Widgeon, Wood Duck, Sharp-shinned Hawk, Cooper's Hawk, Red-tailed Hawk, Red-shouldered Hawk, Osprey, Sparrow Hawk, Bobwhite, Ring-necked Pheasant, Coot, Killdeer, Spotted Sandpiper, Lesser Yellow-legs, Mourning Dove, Yellow-billed Cuckoo, Black-billed Cuckoo, Screech Owl, Great Horned Owl, Barred Owl, Nighthawk, Chimney Swift, Ruby-throated Hummingbird, Kingfisher, Yellow-shafted Flicker, Red-bellied Woodpecker, Red-headed Woodpecker, Hairy Woodpecker, Downy Woodpecker, Eastern Kingbird, Crested Flycatcher, Eastern Phoebe, Least Flycatcher, Wood Pewee, Olive-sided Flycatcher, Horned Lark, Tree Swallow, Rough-winged Swallow, Barn Swallow, Cliff Swallow, Purple Martin, Blue Jay, Common Crow, Black-capped Chickadee, White-breasted Nuthatch, House Wren, Long-billed Marsh Wren, Catbird, Brown Thrasher, Robin, Swainson's Thrush,

Eastern Bluebird, Cedar Waxwing, Starling, Yellow-throated Vireo, Red-eyed Vireo, Warbling Vireo, Black-and-white Warbler, Nashville Warbler, Blackburnian Warbler, Chestnut-sided Warbler, Bay-breasted Warbler, Northern Waterthrush, Mourning Warbler, Yellowthroat, Wilson's Warbler, Canada Warbler, American Redstart, House Sparrow, Eastern Meadowlark, Western Meadowlark, Red-winged Blackbird, Baltimore Oriole, Common Grackle, Brown-headed Cowbird, Cardinal, Rose-breasted Grosbeak, Dickcissel, American Goldfinch, Vesper Sparrow, Chipping Sparrow, Field Sparrow, Song Sparrow.

BUSINESS MEETING

Myra Willis, president, called the meeting to order for several items of business. She reminded the group of the spring convention in May on the campus of Iowa State University, Ames, Iowa, May 13-14, 1966. Dr. Milton Weller invited the Iowa Ornithologists' Union to meet there.

A discussion of the disposition of the money accumulated from life memberships, which now totals \$250.00, was placed in order by the president. Moved by Albert C. Berkowitz that the moneys, designated as the Life Membership Fund, be placed on interest, the interest to be transferred to the general fund of the Iowa Ornithologists' Union each year. Seconded by J. P. Moore. Motion carried. (Note:—The money \$250.00, was invested in a Savings Certificate at interest of $4\frac{1}{2}\%$ in the National Bank of Waterloo, Iowa, Sept. 12, 1966. MMB).

Jack McLane reported on the recent meeting of the Iowa Wildlife Federation and suggested that the I. O. U. be represented in this organization. No definite action.

Wayne Partridge, invited the I. O. U. to hold the September, 1967 meeting at Springbrook State Park, Guthrie Center. Moved by Charles C. Ayres, Jr., that the I. O. U. express a desire to go to Springbrook Park, if approved by the Executive Council. Seconded by C. Esther Copp. Motion carried.

The members of the I. O. U. present give their heartiest thanks to the members of the Red Cedar Chapter of the Izaak Walton League for their generous hospitality given at this fall meeting. Special appreciation to Harry Rector, host, (long time member of I. O. U.) and to Glenn Gordon, President; to those who served the refreshments Saturday evening, and in particular the sweetest, crispest watermelon ever tasted; to those who arranged the breakfast and luncheon at the Country Club Sunday; and for the fine birding Sunday morning in the 1000 acres of woodland, ponds and streams preserved by this group. We salute you as active conservationists.

Moved by Jack McLane that the fall meeting adjourn. Seconded by Homer Rinehart. Motion carried. Adjournment.

REGISTERED ATTENDANCE

AMES: Richard Knight, Mr. and Mrs. James P. Rod

BURLINGTON: Jack McLane, Suzanne Wart

CASTALIA: Florence Albright, Darwin Koenig, Mr. and Mrs. Roy Schultz

CEDAR FALLS: Gertrude Bode, Mrs. Lloyd Collins, Frances Crouter, Victoria Madsen, Mrs. Blanche Schwanke, Maxine Schwanke, Mrs. K. A. Velie

CEDAR RAPIDS: Beryl and Patricia Layton, Lillian Serbousek, Myra G. Willis

DAVENPORT: Mr. and Mrs. Peter C. Petersen, Jr.
 DES MOINES: Albert C. Berkowitz, Woodward Brown
 IOWA CITY: Erwen Graber, Duane L. Miller
 JEFFERSON: John Faaborg
 JESUP: Mr. and Mrs. Worth Couder, Alfred Happel, Mr. and Mrs. Lloyd Hewitt
 MARION: Mrs. Lucile Liljedahl
 MARSHALLTOWN: Mr. and Mrs. Homer Rinehart
 MONTICELLO: Mr. and Mrs. Galen Hein
 NEWTON: Mr. and Mrs. J. P. Moore
 OSKALOOSA: Mr. and Mrs. Keith D. Layton
 OTTUMWA: Judge and Mrs. Charles C. Ayres, Jr., Mr. and Mrs. M. K. Hallberg
 VAN HORNE: Mr. and Mrs. Raymond Gronship
 VINTON: Mr. and Mrs. Clifford Aldeman, Mildred Ervin, Cecil R. Fry, Glenn and Martha Gordon, Mr. and Mrs. Jack McDowell, Harry and Frances Rector, Carl Seely, Judge John W. and Blanche Tobin
 WATERLOO: Dr. Myrle M. Burk, Antoinette Camarata, Norval and Hulda Flynn, Ruth Halliday, Margaret Nagel, Mr. and Mrs. John Osness, Nick Osness
 WHEATLAND: C. Esther Copp
 WINTHROP: Mr. and Mrs. Fred Pierce
 GIFU, JAPAN: Heroish Ueno

FIELD REPORTS

There was considerable unfavorable weather during the nesting season; early freezes were evidently responsible for some mortality among the box-nesters, (GB), and extreme heat later on caused the loss of a number of Blue-bird and House Wren clutches, (PP). There were a number of windstorms and tornados but no one commented on nesting losses from this source. The killing of trees by the Dutch elm disease seems to have its bright side; Blue-birds have been using cavities in the dead trees, (GB), and the same condition may be responsible for the Tree Swallows, remaining in the Iowa City area, (FK), also a Brown Creeper used the loose bark as a nesting site.—Dick Greer.

Loons, Grebes, Herons, Cormorants. A Common Loon was seen in the Des Moines Impounding Res. on 11 June, a late date. A very late Eared Grebe was at Union Slough on 16 and 17 June, and a Western Grebe was seen 29 May, (PF). A Double-crested Cormorant colony north of Clinton where 9 young were banded is perhaps the last of the colonies along the Mississippi, (PP). Great Blue Herons are seen occasionally, but are not as common as formerly, (JK), but they now constitute about a third of the nesters at the Rock Island heronry with many Black-crowned Night Herons and Common Egrets. Yellow-crowned Night Herons and Green Herons have been seen without nests being found. The heronry on the Illinois side just below Lock 13 has about 50 Great Blue Heron and 2 Common Egret nests, (PP). There are an estimated 125 Black-crowned nests at Goose L., (JF). A Yellow-crowned nest with eggs was found in the Princeton bottoms, (PP), while several of the species have been seen many times just north of Des Moines without a nest being found. A Little Blue Heron was seen 13 July near I 30 north of Des Moines by Mrs. Margaret Brooke and Miss Mary E. Warters.

Geese, Ducks. A pair of Canadas seen at Union Slough from 14 to 21 June, a White-fronted, apparently a cripple, was still present on 22 July, and a Blue and a Snow Goose were seen as late as 3 and 6 June, respectively. Mallards and Wood Ducks had a very good production but Blue-winged Teal were slightly down from last year, (PF). A single Canada was near Mitchellville 1 July in a flooded field, (PP). Several Wood Ducks nested in the Ames area, (Dick), and several broods are reported around Des Moines. A pair of Lesser Scaups appears to be nesting at Goose L. in Greene Co. where several pairs of Ruddy Ducks are nesting, (JF). A lone scaup was on Swan L. on 22 July, (FK). An adult female Hooded Merganser was seen 24 July in a pond in the Skunk River bottoms near Des Moines by Miss Mary E. Peck.

Vultures, Hawks. When a flock of 8 Turkey Vultures was seen the attraction proved to be one dead rabbit. One or 2 vultures are being seen each week, (DG). This was not a particularly good year for Red-tailed Hawks in Scott Co., (PP); no more nests, but each produced at least one big enough to leave, which is an improvement over last year, (EB); 2 pairs nested (GB). A pair of Red-shouldered nested near Decorah, (DK), but no successful nests are known, (PP). One Broad-winged nest was found in Boone Co. as was one of the Swainson's, (Dick). Swainson's nested in the same place as last year, (PP), and one of this species was the only hawk seen between Sioux City and Iowa City, (DH). No mention of Marsh Hawks was made and this hawk appears to be one which is seldom seen. Most thought Sparrow Hawks to be doing well.

Gallinaceous species. Bobwhite: best ever seen, (GB); definitely up, (Dick); more numerous than 10 or probably last 20 years, (DG); and, good year, (PP). Ring-necked Pheasant: appears to be a good hatch, (EB); more numerous, (JK); and best ever seen, (GB). Chukars have been released near Pleasantville but it is not known how well they will succeed. Another interesting report from the same place tells of several recent sightings of Turkeys. These are thought to be escapes from a Turkey farm operating in the area 2 or 3 years ago.

Shorebirds. A King Rail was seen on 21 July, (JK). A late Semipalmated Plover was on the Upper Iowa River on 3 June, (DK). Killdeer: more this year, (EB); more than '65 but still not numerous, (GB); many in Polk Co. after having been considered scarce in the spring. Four late Golden Plovers were present 14-17 June, and 3 Ruddy Turnstones on 30 May with 1 on 15 June were late stayers, (PF). Upland Plovers: 2 on 15 July were only ones seen, (EB); not reported from Pleasantville or Polk Co. where they nested last year; 1 seen 1 July in Story Co. was thought unusual, (Dick); 1 pair in a Boone Co. meadow appeared to be nesting, (MS); but, nesting in usual numbers, (DG); seen every day, (JK); and common and widespread over Greene Co., (JF). Two Willets were seen on 5 July, and another on the 12th, (PF). A late Stilt Sandpiper was at Iowa Falls on 24 May, (DK). A flock of about 15 Buff-breasted Sandpipers was seen on 16 May, (EB).

Terns, Doves, Cuckoos. Five Caspian Terns were at Goose Lake on 17 July, a rather late date, (JF). Doves definitely seem down, (JK). Cuckoos were generally thought scarce: down, even in the Yellow River Forest where usually common, (DK); both down and very late, (PP); seem scarce and few seen, but hear one occasionally, (HMCK); seem to be down, (EB); occasional glimpses, but not known if nesting, (DH); only in one location — scarce, (FK); only 1 seen this summer, (PK). Specifically, Yellow-billed not seen

until 6 June, but now in normal numbers, (PL); maybe 3 pairs in the town-ship, (GB); very scarce in Polk Co. Black-billed: none, (GB); almost nil, (JF, WHB).

Hummingbirds, Woodpeckers. Only one pair of Hummingbirds during the nesting season, (GB); way down, (BS); only one report from Des Moines. Pileated Woodpeckers are showing up in yards near the river in Burlington, (PL); and are seen regularly on Credit Island, (PP). Red-headed are in good numbers with dead elms a possible factor, (GB).

Flycatchers, Swallows, Creepers, Wrens. The only Western Kingbird mentioned was seen 3 July near Jefferson, (JF). E. Phoebes are down, (GB), and Say's Phoebes down 50% (with no explanation offered), (EB). Traill's are a very common nester, (PF), but Wood Pewees are few, (GB). Tree Swallows have been present for the past two summers, (FK). Rough-winged: nested in at least three locations, (GB), but not seen in Des Moines as frequently as in former years. Barn Swallows: fewer this year as was the case in '65, (GB). Cliff Swallows: a new colony found under a bridge near Pleasantville, but a number of nests destroyed by House Sparrows. A tropical storm prior to the spring migration is reported to have caused very great losses among Purple Martins, and doubtless accounts for the reports of their decrease this year. A Brown Creeper was banded at the mouth of the Wap-sipinicon on 19 June, (PP), and a nest was found by Dick Greer at Keithsburg, Ill., which is on the Mississippi across from the south boundary of Louisa Co. Both Marsh Wrens are down, the Long-billed the more noticeable, (JF). Three pairs of Carolina Wrens were found where only one has been known before, (PL).

Mimics, Thrushes, Shrikes. An active nest of the Mockingbird was found, but 3 others were deserted, (GB). The Wood Thrush was found nesting in two places, the first county records in several years, (JF), but very few have been known in recent years, (FK). Bluebirds: only 107 nestlings banded vs. 130 at the same time last year due to predation and May weather, but many are nesting in dead trees, (GB). They are definitely up, highest in four years, (Dick); seen more often than last year, (MS); seem up this year, (FK); more common than in other years, (JK); but, several clutches lost due probably to hot weather, (PP). Loggerhead Shrikes: a few more, (EB); nesting numbers increased over last year, (JF); on 22 July saw the first one since April — usually in three or four places, (FK); although rarely found in north-central Iowa in previous years, they have shown up quite frequently, (BS).

Vireos, Warblers. The vireos are almost non-existent, (GB). Have seen 2 Red-eyed and none of the others, (JK). A White-eyed was heard on 19 June in the Princeton bottoms, (PP). Bell's are more common, and there are more Yellow-throated nesting, (JF). A late Solitary was seen 14 June, (WY). Red-eyed: formerly a very common nester in Des Moines, but few last year and even fewer this year; scarce the last two springs and not thought to nest in Sioux City, (DH); only 1 record, (JF); seem fewer, especially in the Yellow River Forest, (DK); not heard as often this summer, (PK); but, there are good numbers in Boone Co., (Dick). Blue-winged Warblers seen more common in the Yellow River Forest, (DK). Yellow, scarce or absent, (DH), and again fewer in Des Moines. A very late Myrtle was at Union Slough on 2 June, (PF). Yellowthroats: numerous but not like last year, (GB); very numerous, (JK), and plentiful in Des Moines. A Kentucky was banded 19 June at Princeton and on 15 and 16 July at Wildcat Den, (PP). Only 1 pair of Redstarts seen (GB), and few in Polk Co., despite a very heavy spring migration.

Finches, Sparrows. Blue Grosbeak nestings were weeks late for some unknown reason, (EB). All sparrows scarce except Dickcissels which are numerous, (JK). Pine Siskins were very common as late as 29 May, (JF). Goldfinches: not too many to be seen, (DH). Towhees; never numerous, but heard in more places than usual, (GB); appear down, (Dick); and again scarce in Polk Co. Savannah; commonly nesting, (PF); but scarce, (DK). Grasshopper; scarce, (DK); but, seem up, (JF); and common nester, (PF). An immature Grasshopper was flushed as early as 20 May, (EB). Henslow's were found in three places which is unusual, (FK); and they are found in the Yellow River Forest, (DK). Vesper and Lark seem up, (JF); but the latter seem few, (FK, WHB). Chipping seem fewer with Field up, (JF). Several pairs of Swamp Sparrows are nesting at Dunbar Slough, (JF).

Christmas Bird Count dates are December 21 through January 2, with reports due by January 10.

Contributors: Mrs. Gladys Black, Pleasantville; Eldon Bryant, Akron; John Faaborg, Jefferson; Paul E. Ferguson, Union Slough; J. Donald Gillaspey, Lamoni; Mrs. Darrel Hanna, Sioux City; Russell Hays, Waterloo; Jim Keenan, Ogden; Fred W. Kent, Iowa City; Richard (Dick) Knight, Ames; Pearl Knoop, Marble Rock; Darwin Koenig, Castalia; Peter Lowther, Burlington; Howard McKinley, Russell; Peter Petersen, Jr., Davenport; Barton Sutter, Hanlontown; Myron Swenson, Ames; William Youngworth, Sioux City. WOODWARD H. BROWN. 4215 Ingersoll Ave., Des Moines, Iowa, 50312.

GENERAL NOTES

Story County Nesting Record for the Swainson's Hawk and Comments—Padding down the Skunk River on April 8, 1966, (Howard township, section 31) Bart Sutter, Myron Swenson, and I were assailed from the sky by several long, plaintive cries. Above our heads was a pair of circling Swainson's Hawks. We made for shore to check our observation and came upon two wildlife students, Jim Rod and Don Carr, already watching the birds. They told us of seeing the birds with nesting material perched by an old nest in a American Hackberry tree. I climbed the tree to the nest which was in poor shape and showed no recent signs of use. Continuing southward on our trip down the Skunk, we later saw three Swainson's flying slowly in a southerly direction.

Visiting again on May 6 the scene of our first encounter, I found a Swainson's Hawk nest with an incubating bird on the nest. The other adult was seen soaring over a field nearby. The nest contained two eggs and was 45 feet up in a Silver Maple tree (*Acer saccharinum*) less than fifteen yards from the Skunk River. The nest was constructed of large sticks finished off with twigs and weeds. The bowl of the nest contained several flower clusters of willows. Bent (1937) mentions this interesting habit of the Swainson's Hawk in decorating the nest.

Larry Zach accompanied me on July 6 to the nest. The nest now contained three young birds, two of which I banded. The parent birds were not seen about the area.



SCREAMING ADULT OVER NEST

Photo by Jim Rod

An amateur ornithologist, Martin Jacobs, who owns land near the nest told me of seeing Swainson's Hawks during the past summers. Dennis Carter (Burk, 1957) in 1957 saw a pair of Swainson's in Story County and cited the possibility of their nesting.

The behavior of the parent birds about the nest agreed with observations by Wolden (1934), Bent (1937), and Carter (1958).

A search of the literature on the Swainson's Hawk revealed an interesting note. Charles A. Stewart (1949) reported from a forum held at a joint meeting of the Iowa and Nebraska Ornithologist's Unions at Sioux City, Iowa, 1948, that "The consensus of opinion of members was that the Swainson's Hawk has left Iowa as a breeder but is occasionally seen in migration. The bird has evidently moved its range westward." This statement leads the reader to believe the bird was at one time a resident of Iowa but lost its status as a breeder during the 1930's and 40's when it moved westward, evacuating the state. In the past several years though there has been an increase of new county nesting records (see chart I) and the Swainson's Hawk is considered by Roosa (*Des Moines Sun, Reg.*, 1965) to be the third most abundant summer buteo in Iowa. In addition, such observers as Blevins (1956), Hays (1957), Carter (1958), and Youngworth (1960) have mentioned an increase in numbers of the Swainson's Hawk and state their beliefs that the bird is coming back to parts of Iowa. Is the Swainson's now making another extension of range; this time eastward? It appears so but no definite conclusions can be reached until more records and summer observations are available.

County	Date	Observer
Cass	1956	Dennis Carter
Scott*	1956	Lewis Blevins
Pottawattamie	1956	Dennis Carter
Plymouth	1958	William Youngworth
Humboldt	1959	Dennis Carter
Wright	1964	Dean Roosa
Story	1966	Richard Knight

Chart I—Recent county nesting records of the Swainson's Hawk

*Still breeding

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RICHARD KNIGHT, 116 Stanton Ave., Ames

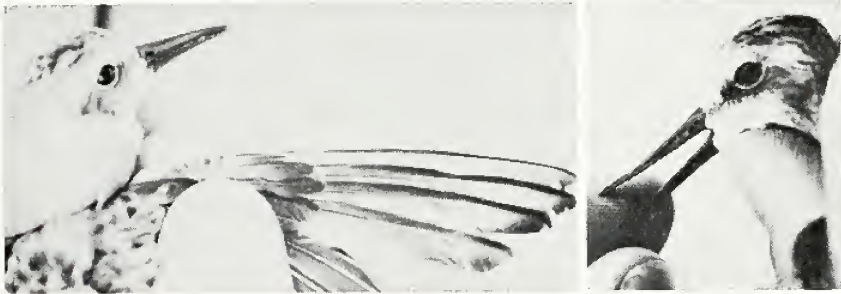
Cormorant Nesting in Johnson County (Coralville Reservoir)—On August 9 while boating in the Refuge area of the Coralville Reservoir, a large area of dead trees drowned out by successive flood storage, Dr. Barry Knapp spotted a cormorant nest in the fork of a tall dead tree. He reported two almost full grown birds in the nest and two others perched in the tree (photo). On August 20 Tom Kent and I located the nest tree with a scope from roads into the area, and saw one bird on the nest and later another bird also in the tree. On September 5 I found a bird in the top of a willow tree a close range in the same area. And again on September 10 Dr. Knapp saw four birds in the nest tree at dusk.—F. W. KENT, 302 Richards St., Iowa City.



CORMORANT NEST AT CORALVILLE RESERVOIR

Photo by Dr. Barry Knapp

Western Sandpipers at Davenport.—The Western Sandpiper occurs on a fairly regular basis during August at Credit Island, Davenport. This year one bird was banded August 7, 1966, and is shown in the accompanying photos. These pictures illustrate the serrated palate, bill shape and size, and white on the basal half of the shaft of the outer primary. Banders especially should carefully examine Semipalmated Sandpipers banded in August with these points in mind. One or two Western Sandpipers were also present at Credit Island on August 9 and 16. No band could be seen on these birds. Of additional interest were the seven Stilt Sandpipers seen August 20 (one banded and photographed) and one Black-bellied Plover seen September 24, all at Credit Island.—PETER PETERSEN, JR., 2736 E. High St., Davenport, and WILLIAM LONNECKER, RR #1, Box 229A, Bettendorf.



VIEWS OF WESTERN SANDPIPER
Photos by William Lonnecker

Western Grebe at Lamoni.—When driving across the city reservoir here on Aug. 16, 1966 I observed a Western Grebe in nearby water. Mr. and Mrs. Ralph Silver drove out and observed it for some time with binoculars at close range. It had a very long slender neck and made repeated short dives, making it easy to identify. There was also an immature Double-crested Cormorant on the lake Aug. 17 & 18. J. DONALD GILLASPEY, Rt. 1, Lamoni.

Young Green Heron Out of Habitat.—One evening in mid-July I rushed to the home of Leon Parker, one of the younger inhabitants of Hanlontown. Rumors had blown my way that Leon had captured a young pelican. Leon's caged "pelican", however, proved to be a young Green Heron.

I questioned Leon closely about the bird, and he and his friends told me eagerly of how they had found it in the city park. Gradually the number of witnesses of the capture increased to a most respectable list, including several adults.

The puzzle is this: Though the young heron was well-feathered, it was still flightless. Normal habitat for Green Herons is swampland or stream-bottoms; the city park is most definitely not heron habitat. The nearest stream is over a mile away and that is a barren drainage ditch. The nearest likely habitat is better than two miles from the park. Question—How did a young, flightless Green Heron move from its home territory at least a mile away to the park which is located in the center of town. This migration without wings remains a mystery.

Oh yes. Several days later I asked Leon about the bird, which he had insisted on keeping. "Oh, the heron?" he said, "He got out of his cage two nights ago. I haven't seen him since." BARTON E. SUTTER, Box 17, Hanlontown.

Albinism in a Yellow-headed Blackbird.—On Friday, September 9, 1966, about 6:30 p.m. (DST) I was passing through Joice, Iowa, in a bus headed for a football game. As the bus slowed to pass through the city, I glanced out the window at the large number of blackbirds gathered in the park. Immediately my eye was caught by one bird showing partial albinism. The bird had a hood of white comparable in size and shape to the yellow hood of a Yellow-headed Blackbird. In addition there was a scattering of white markings extending down the bird's belly. As the bus neared the bird, which was only a few feet from the street, the bird flew a short distance revealing the white wing patches that identified this individual as a Yellow-headed Blackbird.

Although I returned to the area several days later, it was to search for the "White-headed Blackbird" in vain. Apparently it had moved on in migration with the rest of the flock. BARTON E. SUTTER, Box 17, Hanlontown.

BOOK REVIEWS

John James Audubon, A Biography—Alexander B. Adams—510 p., 21 illustrations—G. P. Putnam's Sons, New York, N.Y. 1966—\$7.95.

A very complete and nicely rounded biography of the great pioneer ornithologist and artist. The author traces Audubon's life through the business failures of his early years to the undertaking of his great life work. Much careful research has doubtless gone into this work. The author's style makes for very enjoyable reading and holds reader interest nicely.

It has been argued that Audubon is overrated when considered the first great American ornithologist. This book allows the reader to view his accomplishments objectively in the light of the many factors and obstacles he faced, then judge for himself. Certainly he has evolved as a figure who did a great deal to popularize bird life and its study. School and public libraries in particular should consider this volume for its wealth of detailed information on this important historical figure.—ed.

Handbook of Birds of Eastern North America—Frank M. Chapman—581 p., 29 drawings and photos, 166 figures—Dover Publications, Inc., New York, N.Y.—1966—paperbound—\$3.00.

Many birders used this book as one of their first field guides. Possibly overlooked in this era of excellent field guides with many color plates, this volume still deserves a niche in the field reference library. This reprint is of the revised edition of 1931, with a few sections up-dated. A new color chart has been prepared and the life zone map has been enlarged. The eight plates originally reproduced in color are in black and white, but the thrushes appear in color on the front cover.

Anyone not familiar with this book will discover that it contains a wealth of information. The plumage of each species is described in detail, the songs and calls are mentioned, range is defined, habitat is indicated, breeding data is included and migration data is covered. The introductory chapters cover the basic background matter such as equipment; ornithological societies; and general comments on distribution, migration, voice, nesting, plumages, food and other activities. A complete bibliography (up to 1931) is included. ed.

Birds of Prey of Northeastern North America—Leon A. Hausman, sketches by Jacob B. Abbot—164 p., 30 sketches—Richard R. Smith, Publishers, Peterborough, New Hampshire—revised edition—1966—\$4.95.

A group of well written accounts of the birds of prey. The species are described, length and wingspread listed, and the remainder of each account consists of general comments concerning the bird. This information is the most unique contribution of this book. Such items as diet, general range, breeding habits and voice are included. Many of the facts listed herein would not be found in a field guide. Some mention is made of the effects of pesticides on birds of prey. ed.

The Roseate Spoonbill—Robert P. Allen—142 p., 20 photos, 44 figures; **The California Condor**—Carl B. Koford—154 p. 31 photos, 15 figures; **The Ivory-billed Woodpecker**—James T. Tanner—111 p., 20 photos, 22 maps and figures, 17 tables—Dover Publications Inc., New York, N.Y.—1966—paperbound—\$2.00 each.

A reprinting of three of the National Audubon Societies Research Reports which have been hard to obtain in recent years. First printed in the 1940's and 1950's, these life history studies are aimed at the preservation of these endangered species. Two of the three species remain on the verge of extinction with their survival not yet assured. Perhaps making these fine research studies again easily obtainable to all will stimulate their preservation. The books differ somewhat in format but all cover the usual phases of life history in varying detail. Distribution is stressed as this is a key factor for an endangered species. Both conservationists and serious bird watchers will want to have these books in their libraries.—ed.

Peter Kalm's Travels in North America—translated and revised by Adolph B. Benson—two volumes, 797 p., 18 plates and one map—Dover Publications Inc., New York, N.Y.—1966—paperbound—\$2.50 each volume.

While not a bird book this set will interest the bird watcher or naturalist with a bent toward history. Kalm was a Swedish botanist who spent three years in North America from 1747-1750. He traveled in New York, New Jersey, New England, Pennsylvania and southern Canada. He had a keen mind and was an exceptional observer, keeping an interesting record of what he observed, relating it to similar European species, with accurate descriptions, uses, and classification being included. The index allows one to locate the references to birds, which are frequent. Many a reader might start in this manner, being a bird watcher, only to find himself continuing through the text of general accounts. It is a good picture of many facets of colonial life and the land as it was over 200 years ago. ed.

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MEMBERS

- Allert, Oscar P., R.R., McGregor, 1929
 Alton, Mrs. Earl, Box 405, Oelwein, 1960
 Anderson, Mrs. Arvid, 4815 Bayfield Terrace, Madison, Wisc. 1966
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 Blankespoor, Gilbert W., Box 81, Hull, 1963
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 Briggs, Shirley, 7605 Honeywell Lane, Bethesda, Md., 1964
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 Brown, Mr. and Mrs. Joseph L., 3300 Lincoln Ave., Des Moines, 1966
 (S) Brown, Mr. and (S) Mrs. Woodward H., 4815 Ingersoll, Des Moines, 1947, 1948
 Brunner, Dorothy, 1603 W. Maine, Marshalltown, 1946
 Bryant, Eldon J., Rt. 1, Akron, 1962
 Buchanan, Allen K., 1½ East State St., Algona, 1965
 Burk, Dr. Myrle M., R.R. #2, Waterloo, 1949
 Burns, Michael M., 617 E. 14th St., Ames, 1959
 Campbell, Mrs. Ed H., Battle Creek, 1960
 Campbell, John, R.R. #2, Oskaloosa, 1961
 Carey, Raymond, Rockwell City, 1965
 Carl, Harry G., 2304 Davie St., Davenport, 1948

*Complete to Sept. 1, 1966. Year of joining follows the name. All cities in Iowa unless otherwise noted. The following letters are used in the list:

(HC) Honorary Charter Member
 (C) Contributing

(H) Honorary
 (L) Life

(J) Junior
 (S) Supporting

- Carpenter, Mrs. Madeline, 36856
Thinbark, Wayne, Mich., 1958
- Carson, L. B., 1306 Lincoln, Topeka,
Kan., 1949
- Carter, Dennis, Arches National
Monument, Moab, Utah, 1947
- Christensen, Dr. Everett and Dr.
Eunice, 114 E. 5th St., Spencer,
1951, 1950
- Cogswell, Seddie, Jr., 818 Finkbine
Park, Iowa City, 1959
- (S) Conard, Dr. Henry S., Lake
Hamilton, Fla., 1965
- Conner, Mrs. Stephen, 517 W.
Pleasant Valley St., Sigourney,
1946
- Conway, Mrs. Carl, 1021 Main,
Osage, 1966
- Copp, C. Esther, Wheatland, 1933
- Cortelyou, R. G., 5109 Underwood
Ave., Omaha, Nebr., 1960
- Crane, George E., 106 S. Main St.,
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- (S) Criss, Mrs. Eugene, 208 So. 8th
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- (S) Crocker, Mrs. Edwin G., 721 E.
1st St., Storm Lake, 1960
- Crossley, Mr. and Mrs. George E.,
1890 Wood St., Dubuque, 1948
- Crouter, Frances, 2517 Walnut St.,
Cedar Falls, 1944
- Crowley, Ann M., 215 5th Ave. S.W.,
Independence, 1953
- Curry, Mrs. Norval H., 227 Campus
St., Ames, 1951
- Dau, Walter, 2716 McKinley Ave.,
Davenport, 1966
- Daubendiek, R. W., 504 Center
Ave., Decorah, 1960
- Daum, Wanda, 803 Williston Ave.,
Waterloo, 1947
- Davison, Mr. and Mrs. P. B., 1200
S. Paxton, Sioux City, 1960
- Delle, Margrieta, 625½ Brookland
Park, Iowa City 1966
- DeLong, Mrs. W. C., Box 278, Shen-
andoah, 1939
- DeLoss, R. E., 1800 Isabella, Sioux
City, 1964
- Dexter, Maud, Laurens, 1965
- Dickey, Margaret, 1922 1st Ave.
N.E., Cedar Rapids, 1946
- Diggs, Mr. and Mrs. Fitzhugh L.,
R.R. #1, Hamburg, 1964, 1961
- Doerder, Paul, R.R. #3, Boone,
1960
- Dolan, Gregory, 474 Primrose, Du-
buque, 1965
- Dorweiler, Margaret, 616 W. 6th
St., Cedar Falls, 1945
- Dragoo, Lavina, Pierson, 1929
- (H) DuMont, Philip A., 4114 Fes-
senden St. N.W., Washington,
D.C., 1929
- (H) DuMont, Mrs. W. G., 1615 Hin-
man, Evanston, Ill., 1927
- Dyke, Mrs. Dale, Essex, 1966
- Easterla, David A., 403 South Fred-
ricka, Maryville, Mo., 1965
- Eaton, Edward E., P.O. Box 317,
Sidney, 1959
- Eberly, Lee, 829 Ridgeway, Water-
loo, 1964
- Ehlers, Mrs. John, 305 Chestnut St.,
Reinbeck, 1947
- Eifert, Eleanor, 104 East 9th St.,
Cedar Falls, 1960
- Ellis, Charles J., 3621 Woodland St.,
Ames, 1959
- Englehorn, A. J., 2923 Arbor, Ames,
1954
- (C) Eyerly, Mrs. Frank, 231 42nd
St., Des Moines, 1947
- Faaborg, John, 705 West Madison,
Jefferson, 1963
- (S) Fawks, Elton, 2309 5th Ave.,
Moline, Ill., 1950
- (J) Fick, Robert, Box 183, Oelwein,
1966
- Fisher, Mrs. Richard, West Chester,
1965
- Fitzsimmons, C. S., Box 54, Sibley,
1945
- Flynn, Mrs. Norval C., 1640 Corn-
wall Ave., Waterloo, 1966
- Ford, Arthur M., Box 173, Moville,
1959
- Formanek, Kenneth J., Rt. 3, Box
54 Bellevue, 1964
- Fox, Adrian C., P.O. Box 327,
Leeds, N. Dak., 1950
- Fredrickson, Leigh H., Dept. of
Zoology, Iowa State University,
Ames, 1964
- Frink, Jacob A., R.R. #2, Box 215,
East Moline, Ill., 1965
- Fry, Cecil R., 305 N. 9th Ave., Vin-
ton, 1956
- Fuller, Mrs. Lowell, 900 South Gar-
field Ave., Burlington, 1962
- Fullefson, Eleanore, Suite E8, 1628
Park Town Place, Cedar Rapids,
1958
- Funk, Ruth F., 800 4th Ave. S.W.,
Independence, 1940
- Gates, Doris B., Star Route #1, Box
25, Chadron, Nebr., 1956
- Getscher, Mrs. Edwin A., #4 Sky-
line Drive, Hamburg, 1959
- Gillaspey, J. Donald and Jimmy,
R. #3, Lamoni, 1956, 1958

- Goellner, Dr. Karl E., 1215 Oakland Ave., Cedar Rapids, 1956
- Goodman, Dr. John D., Dept. of Biology, University of Redlands, Redlands, Calif., 1941
- (S) Grabe, Mrs. Don, R.R. #3, Ames, 1963
- Graber, Erwen, 2427 Crestview, Iowa City, 1966
- Grant, Dr. Martin L., 417 Olive St., Cedar Falls, 1937
- Greer, Theodore R., Joy, Ill., 1959
- Grier, Jim, 1924 Rainbow Dr., Waterloo, 1963
- Griffith, Mrs. E. M., 4150 Greenwood Dr., Des Moines, 1965
- Grimes, Mrs. L. R., 19 Woodbury Bldg., Marshalltown, 1960
- Grimes, Orville, 313 N. 15th St., Marshalltown, 1965
- Gruwell, Mrs. W. R., 700 Laurel Park Rd., Dubuque, 1952
- Guthrie, Richard A., Woodward, 1939
- Haffner, Annette, 1704 Tremont St., Cedar Falls, 1959
- (S) Haffner, Frieda M., 1424 Jefferson St., Burlington, 1964
- (S) Hagenson, Dr. Paul E., 222 Tucker Bldg., Clinton, 1965
- (S) Hallberg, Mrs. M. K., #4 Rock Bluff Road, Ottumwa, 1959
- Halliday, Ruth, 461 Progress, Waterloo, 1960
- (J) Hancock, John, 705 Sunset Dr., Pleasantville, 1966
- Hanna, Mr. and Mrs. Darrell M., 1026 S. Alice, Sioux City, 1958, 1955
- Hansen, Mrs. Leroy C., 314 McKinley Ave., Lowden, 1965
- Harrington, Irene, 1834 First Ave., N.E., Cedar Rapids, 1959
- Haskell, Mr. and Mrs. Lester W., 231 E. Creston, Des Moines, 1958, 1952
- Hattlelid, Mrs. Helen S., Box 173, Worthington, Minn., 1961
- Hauft, Richard, Box 116, Nichols, 1965
- Hawkins, Helen, 633½ W. Park Ave., Waterloo, 1961
- Hays, Russell M., 533 Home Park Blvd., Waterloo, 1939
- (C) Hayward, Mrs. Viola, 304 W. Washington, Fairfield, 1954
- Hein, Galen, Monticello, 1966
- Helm, Mrs. Iona, R.R. #2, Mediapolis, 1966
- Henderson, Mrs. Eury J., Box 191, Wellman, 1962
- Herdiska, Margaret L., 307½ W. Washington, Fairfield, 1966
- Herrmann, Henry, 1871 Main St., Dubuque, 1941
- Heuer, Ralph J., 2528 Wilkes Ave., Davenport, 1940
- Hewitt, Mrs. Lloyd, 1025 E. Hawley St., Jesup, 1959
- Hinkley, Mrs. Mabelle, 131 Vincent Road, Waterloo, 1960
- Hodges, Herbert J., 203 Kahl Bldg., Davenport, 1944
- Hoskinson, Mrs. Helen H., 622 N. 10th, Clarinda, 1932
- Hovde, O. M., 603 North St., Decorville, 1963
- Hoye, Joe L., 320 N. 8th St., Estherville, 1963
- Hoyt, Mrs. Archie, 328 N. 5th St., Oskaloosa, 1966
- Huber, Ronald L., Railroad Warehouse Commission, 480 State Office Bldg., St. Paul, Minn., 1964
- Huiskamp, Mrs. Gerard L., 729 Grand Ave., Keokuk, 1959
- Huit, M. L., 626 Brookland Park Dr., Iowa City, 1963
- Ingram, Terrence N., R.R. #1, Apple River, Ill., 1965
- Ivins, Robert, Box 256, Agency, 1962
- Jensen, Mrs. Harry R., 1619 Sparbee Court, Webster City, 1965
- Johnson, Clifford O., 891 Kaufman, Dubuque, 1941
- (S) Johnson, Mrs. G. Adolph, 919 Circle Dr., Carlisle, 1958
- Jones, Myrle L., R.R. #2, Dover, Ark., 1931
- (C) Kane, Florence, 129½ 2nd Ave. N.E., Independence, 1957
- (J) Karns, John, 110 Jefferson St., Pleasantville, 1965
- Kaufman, Mrs. Charles L., 1505 Park St., Grinnell, 1962
- Kaufmann, Gerald, Museum of Natural History, University of Minnesota, Minneapolis, Minn., 1964
- (L) Keck, Dr. Warren N., 224 E. Chicago Ave., Naperville, Ill., 1936
- Keegan, Jack, 805 Madison, Dixon, Ill., 1965
- Keeler, Milford D., 2510 S. Federal, Mason City, 1957
- Keenan, James, Ogden, 1948
- (S) Keettel, Dr. William C., 343 Hutchison Ave., Iowa City, 1959
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- Kent, Fred and Tom, 302 Richards St., Iowa City, 1950
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 Kirkpatrick, Mrs. A. D., 3704 Glenn Ave., Sioux City, 1965
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 Kline, Paul D., 1003 N. "C" St., Indianola, 1956
 Klopfenstein, Hazel, R.R. #2, Winfield, 1965
 Knight, Dick, 116 Stanton, Ames, 1962
 Koenig, Darwin, Castalia, 1964
 Koenig, Mrs. Henry, 215 Jackson St., Sauk City, Wis., 1965
 LaDoux, Mrs. B. A., R.R. #1, Spirit Lake, 1957
 Lahr, Mrs. H. W., 518 Barton St., Storm Lake, 1943
 Lair, Mrs. Owen, 715 W. 4th St. S., Newton, 1958
 Lambert, Mrs. Howard T., 1903 Ross St., Sioux City, 1940
 Lanning, L. M., 816 W. 2nd St., Madrid, 1959
 Laude, Mrs. Marguerite, 302 West Park Road, Iowa City, 1947
 Layton, Mrs. Beryl, 1560 Linmar Dr. N.E., Cedar Rapids, 1958
 Layton, Mr. and Mrs. Keith D., R.R. #2, Oskaloosa, 1958, 1962
 (S) Leopold, Frederic, 111 Clay St., Burlington, 1963
 Leshner, Fred, 604 Winona St., La-Crosse, Wis., 1956
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 Lincoln, Mrs. Harold G., Box 254, Delhi, 1958
 Lindemann, Lawrence J., Box 373, McGregor, 1955
 Linder, Harold, Sperry, 1963
 (S) Lonacker, W. M., Box 229A, R.R. #1, Bettendorf, 1966
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 Lubetkin, Mrs. Robert, 3660 Grand Ave., Des Moines, 1961
 Lueshen, Mrs. John, R.R. #2, Wisner, Nebr., 1955
 McClelland, Craig, 200 East 3rd St., Villisca, 1965
 (S) McCutcheon, James, Mt. Vernon, 1946
 McKinley, Howard, Russell, 1965
 McLane, Jack M., 1418 Washington St., Burlington, 1962
 McWilliams, Mrs. Blanche, Scotch Acres, Paton, 1965
 Maish, James P., Box 90, State Center, 1965
 Mayberry, Mrs. E. L., Wyoming, 1964
 Melcher, Rev. M. C., 198 Montgomery St., East Dubuque, Ill., 1939
 (S) Meltvedt, Burton W., Paullina, 1931
 Meyer, Edwin E., 1026 West 17th St., Davenport, 1959
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 Moermond, Tim C., Buffalo Center, 1963
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 Moore, Ann, Box 455, Kilduff, 1961
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 Myers, Mrs. Len, 909 Jefferson St., Waterloo, 1939
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 Nearing, C. Turner, 1400 W. Macon St., Decatur, Ill., 1961
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 Norton, Dr. Robert E. G., 6801 N. 11th Place, Phoenix, Ariz., 1955
 (S) Oetken, Mrs. Fred, 1408 2nd Ave. So., Northwood, 1959
 Ollivier, Roy, Box 223, Mt. Pleasant, 1943
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- Osier, Mrs. Jerald, 103 E. Henry, Mt. Pleasant, 1962
- Osness, Mr. and Mrs. John M., and Nick, 320 Columbia Circle, Waterloo, 1960, 1961, 1964
- Oviatt, R. Dean, Goldfield, 1966
- (HC) Palas, Arthur, Postville, 1923
- Partridge, Wayne F., Rt. #1, Box 142, Guthrie Center, 1949
- Patterson, Stephen, R.R. #2, Perry, 1962
- (C) Pearson, Carl E., 632 N. Stone Ave., LaGrange Park, Ill., 1955
- (S) Peasley, Dr. and (S) Mrs. Harold R., 2001 Nash Dr., Des Moines, 1943, 1934
- Peck, Mary E., 3839 Cornell St., Des Moines, 1957
- Peters, Ivan, 819 East 1st St., Tucson, Ariz., 1950
- (C) Petersen, Mr. and Mrs. Peter C. Jr., 2736 E. High St., Davenport, 1952, 1962
- Petersen, Mrs. Peter C., Sr., 620 E. 30th St., Davenport, 1950
- Peterson, Mrs. C. C., Randall, 1960
- Peterson, Donald, I.S.U. Station, Box 1021, Ames, 1962
- Petranek, Mr. and Mrs. E. J., 508 Vernon Dr. S.E., Cedar Rapids, 1931
- Pettijohn, Mrs. Clyde, Shell Rock, 1960
- Pettingill, Dr. Olin S., Jr., Laboratory of Ornithology, Cornell University, Ithaca, N.Y., 1937
- Phelps, Mrs. Charles, 311 S. East St., Sigourney, 1965
- (J) Phillips, Frances, Pleasantville, 1966
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- Pierce, Robert A., 700 North Coolidge, Little Rock, Ark., 1941
- (HC) Pierce, Mr. and (H) Mrs. Fred, Winthrop, 1923, 1957
- Piper, Robert L., Chariton, 1964
- Pollock, Cora B., 419 Church St., Iowa City, 1966
- Prescott, Russell, 1716 W. Lincolnway, Marshalltown, 1965
- Price, Wanda N., 416 19th St., Bettendorf, 1956
- Prince, Herbert M., R.R. #2 (Sandusky), Keokuk, 1963
- Pulis, Jay and Lee, 1 Park Lane, Ottumwa, 1964, 1965
- Putnam, Mrs. Max, 3819 Amick Ave., Des Moines, 1965
- Rader, Pearl, c/o Wm. Stock, Laurel, 1949
- Rector, Harry E., Vinton, 1942
- (S) Reynolds, E. Estella, 1022 W. 26th St., Des Moines, 1943
- (S) Rinehart, Mr. and (S) Mrs. Homer, Box 291, Marshalltown, 1959
- Roberts, Dr. Mary Price, 6167 Covington Way, Goleta, Calif., 1926
- Rod, James P., R.R. #2, Ames, 1966
- Rohrbough, Malcolm, 420 Ferson Ave., Iowa City, 1966
- Roosa, Dean M., Lehigh, 1957
- (S) Roose, Garland H., 304 36th St., Sioux City, 1965
- Root, Oscar M., Brooks School, North Andover, Mass., 1951
- Rosene, Walter Jr., 127 Oak Circle Gadsden, Ala., 1942
- Ross, Hollis T., West Lawn, R.D. 1, Lewisburg, Pa., 1940
- (S) Ruegnitz, Mrs. R. S., 845 Lawther, Dubuque, 1942
- Runkel, Sylvan J., 302 Old Federal Bldg., Des Moines, 1965
- Sage, Evan V., R.R. #2, Waterloo, 1942
- Sauer, Dr. Pauline L., Museum Director, State College of Iowa, Cedar Falls, 1965
- Schmidt, Harry C., R.R. #2, Waterloo, 1953
- Schramm, Frank H., Box 587, Burlington, 1934
- Schultz, Roy, Castalia, 1961
- Schuster, Ival M., 424 Lowell St., Dubuque, 1941
- Schutt, Mrs. Glenn, R.R. #1, Woolstock, 1965
- Schwanke, Mrs. Charles and Maxine, 209 Olive St., Cedar Falls, 1948, 1958
- Schwartz, Dr. Charles, 1148 Staub Court, N.E., Cedar Rapids, 1963
- Scott, Frederick R., 115 Kennondale Lane, Richmond, Va., 1950
- Serbousek, Lillian, 1226 Second St. S.W., Cedar Rapids, 1931
- Sharar, Mrs. Virginia, R.R. #2, Mediapolis, 1966
- Sharkey, Mrs. George W., Columbus Junction, 1965
- Sherburne, Mrs. Robert, 230 Maryland Ave., Waterloo, 1961
- (J) Silver, Michael, 300 N. Elm St., Lamoni, 1961
- Silver, Mr. and Mrs. Ralph, 109 S. State St., Lamoni, 1961, 1956

Smith, Irene M., 1108 26th St., Des Moines, 1966
 Sorensen, Paul D., Dept. of Botany, State University of Iowa, Iowa City, 1965
 Steffen, Mr. and Mrs. E. W., 1000 Maplewood Dr. N.E., Cedar Rapids, 1940, 1958
 (S) Stewart, Helen T. and (S) Mildred, 1007 Spring St., Grinnell, 1962, 1964
 (L) Stoner, Mrs. Lillian G., 399 State St., Albany, N.Y., 1945
 Stout, Mrs. Emil, Jewell, 1966
 Strawn, Mrs. John T. Jr., R.R. #1, Vinton, 1957
 Strickland, J. W., Sr., 413 S. 3rd St. W., Mt. Vernon, 1945
 Strubbe, Ernest M., Alberta, Minn., 1965
 (J) Stufflebeam, Joe and John, 706 DeWitt St., Pleasantville, 1963, 1966
 (J) Summy, Ruth, 804 Jackson, Pleasantville, 1964
 Sutter, Barton E., Box 17, Hanlontown, 1963
 Swenson, Myron, 306 Westwood Dr., Ames, 1964
 Tennant, Joyce C., 713 Auburn Ave., Chariton, 1955
 Ter Louw, J. W., University Park, 1950
 (J) Tesdell, Lee, Scattergood School, West Branch, 1965
 Thomsen, Christian, 102 S. Maple Ave., Ames, 1965
 Toyne, Mrs. George W., 510 5th Ave. S., Humboldt, 1952
 Trauger, David L., 510½ 7th St., Ames, 1962
 Trial, Robert, 1626 S. 246th Place, Kent, Washington, 1966
 Tucker, Philo H., 2915 Pershing Blvd., Clinton, 1965
 Turnbull, Mrs. H. W., Diagonal, 1944
 Turner, Mrs. Stella, 621 So. 18th St., Clarinda, 1957
 Upp, Mrs. Orville, 608 Wildwood Dr., Ottumwa, 1950
 Van Alstine, Mr. and Mrs. Sewall, Gilmore City, 1957
 Van Dyke, Gerrit D., Hull, 1963
 Vane, Dr. and Mrs. Robert F., 2220 Grande Ave. S.E., Cedar Rapids, 1940, 1946
 Voltmer, Walter, 708 Ringold St., Sigourney, 1962
 Von Ohlen, Dr. Floyd W., 705 Highland, Fairfield, 1950

Walker, Pearle C., Box 244, Ottumwa, 1958
 Walters, Elizabeth L., Route 1, Essex, 1965
 Ward, Norman, 3212 Candlewick Dr., Bettendorf, 1965
 (S) Ware, Richard, 1204 W. College Ave., Jacksonville, Ill., 1962
 Weaver, Gertrude S., 1425 Nebraska, Sioux City, 1946
 Weber, Alois John, R.R. #2, Keokuk, 1929
 Weir, Mrs. Wm. T., Gladstone, Ill., 1965
 Weller, Dr. Milton, Iowa State University, Ames, 1958
 Wershofen, Pauline, La Moille, Minn., 1954
 Whitmus, Mrs. Harold, 5800 Saylor, Lincoln, Nebr., 1959
 Willis, Myra C., 1720 6th Ave. S.E., Cedar Rapids, 1937
 Wiseman, Arthur J., 2073 Harrison Ave., Cincinnati, Ohio, 1965
 (HC) Wolden, Mr. and Mrs. B. O., 1127 N. 5th St., Estherville, 1923, 1965
 Wolden, C. F., Wallingford, 1966
 Wuellner, Mrs. Keith A., 1321 Osborn St., Burlington, 1966
 Young, Dr. Richard A., 820 2nd Ave., N.E., Clarion, 1963
 (H) Youngworth, William, 3119 E. 2nd St., Sioux City, 1926
 Zihlman, Mrs. John, 509 S. 5th St., Fairfield, 1954
 Zollars, Mrs. Emmett, 310 University, Shenandoah, 1966

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 Des Moines Audubon Society—
 Mary E. Peck, Treas., 3839 Cornell, Des Moines, 1953
 Dubuque Audubon Club—
 James A. Doekal, Treas., 1155 So. Grandview Ave., Dubuque, 1933
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 Waterloo Audubon Society—
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- Davenport Public Library, Davenport, 1947
- Des Moines Public Library, 100 Locust St., Des Moines, 1931
- University of Illinois Library, Periodicals Division, Urbana, Ill., 1942
- Iowa State Traveling Library, Historical Building, Des Moines, 1940
- State College of Iowa Library, Cedar Falls, 1939
- State University of Iowa Libraries, Serial Acquisitions, State University of Iowa, Iowa City, 1957
- Keokuk Public Library, Keokuk, 1959
- Lincoln Library, Mankato State College, Mankato, Minn., 1966
- McGill University Library, 3459 McTavish St., Montreal, Canada, 1932
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- State University of South Dakota Library, Vermillion, S. Dak., 1958
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